



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-9-XX-850-2-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111035
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-9-DA-850-2-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI200W/UNV/900C/2DIM+/P6 (2 DRIVER)
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 277VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	56295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	335.72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	2.21 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33907	42788	47194
55	27976	42939	53702
65	21109	46077	53257
75	12558	38867	38108
85	4585	17878	8832

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	18008	18008	18008	18008	18008	18008	18008	18008	18008	18008
5	17968	17961	17984	17988	17965	17912	17889	17902	17949	17992
10	17671	17673	17668	17633	17690	17796	17918	18049	18162	18222
15	17230	17184	17124	17183	17363	17562	17707	17732	17745	17737
20	16552	16467	16456	16588	16756	16814	16874	16935	17013	17097
25	15675	15582	15595	15731	15787	15838	15909	16062	16201	16215
30	14496	14421	14442	14565	14648	14726	14927	14954	15047	15351
35	13084	13021	13112	13329	13349	13513	13582	13827	14191	14518
40	11438	11443	11683	11861	11942	12082	12406	12840	13224	13517
45	9756	9822	10111	10284	10448	10710	11245	11717	12050	12431
50	8140	8230	8448	8677	8956	9423	10038	10420	10827	11244
55	6614	6685	6830	7112	7487	8114	8628	9117	9681	10291
60	5156	5199	5330	5628	6095	6657	7282	8051	8955	9573
65	3756	3787	3937	4259	4754	5392	6250	7094	7835	8364
70	2476	2514	2685	3011	3574	4276	5032	5774	6425	6835
75	1432	1475	1660	1983	2480	3029	3588	4127	4523	4581
80	709	731	872	1098	1390	1664	1931	2306	2591	2758
85	214	239	290	353	438	549	683	824	899	905
90	82	81	81	83	86	88	91	94	98	100
95	121	130	103	88	88	89	91	93	95	98
100	161	211	248	197	95	87	87	88	89	91
105	210	282	366	413	364	174	87	79	78	79
110	268	342	474	534	584	565	361	165	86	69
115	320	395	564	644	688	719	731	624	380	205
120	370	434	598	725	774	788	808	828	798	690
125	410	465	607	761	817	848	854	857	866	870
130	441	486	607	743	837	860	889	892	874	878
135	458	489	583	694	815	867	884	902	911	896
140	456	475	554	653	736	826	865	896	900	910
145	451	459	525	602	681	755	826	853	899	903
150	450	448	499	556	625	678	726	802	820	859
155	448	447	472	515	553	612	650	671	727	781
160	439	438	447	474	501	529	562	597	622	642
165	421	420	424	435	453	471	486	505	520	540
170	416	415	418	420	425	433	443	454	464	473
175	429	430	429	428	428	428	428	429	431	432
180	439	439	439	439	439	439	439	439	439	439

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0	18008	18008	18008	18008	18008	18008	18008	18008	18008
5	18037	18092	18139	18172	18208	18238	18256	18258	18262
10	18226	18226	18234	18244	18232	18215	18221	18221	18223
15	17707	17721	17720	17744	17814	17859	17862	17874	17866
20	17179	17193	17180	17186	17206	17208	17221	17248	17251
25	16256	16399	16590	16754	16857	16903	16938	16969	16998
30	15654	15819	15998	16189	16318	16391	16420	16404	16399
35	14858	15125	15238	15293	15339	15323	15308	15276	15268
40	13842	14096	14179	14179	14198	14244	14283	14307	14310
45	12709	12933	13064	13142	13236	13336	13431	13502	13525
50	11579	11819	12203	12708	13157	13492	13682	13756	13782
55	10876	11456	11874	12074	12282	12440	12567	12624	12625
60	9943	10361	10782	11119	11328	11427	11442	11431	11429

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65	8841	9267	9368	9320	9318	9403	9431	9411	9398
70	7024	7129	7169	7078	6960	6844	6755	6660	6597
75	4614	4691	4786	4856	4793	4627	4456	4336	4286
80	2811	2724	2588	2388	2181	2005	1893	1828	1799
85	864	787	690	591	506	451	422	405	398
90	103	105	107	109	111	112	113	113	114
95	100	102	104	106	107	109	110	110	111
100	92	93	95	97	98	99	101	101	102
105	79	80	81	82	83	84	86	86	86
110	68	69	69	70	71	72	73	73	74
115	113	74	61	62	62	63	64	64	64
120	509	321	208	139	116	98	85	78	76
125	838	779	693	583	499	412	352	319	311
130	877	881	873	852	820	792	773	758	754
135	872	866	870	866	860	861	866	867	867
140	912	906	891	870	856	855	857	859	861
145	909	919	920	916	912	912	912	912	914
150	896	909	911	915	921	930	936	940	943
155	806	816	847	865	886	912	922	930	934
160	656	696	725	754	774	789	804	809	813
165	560	578	593	602	609	618	627	630	633
170	480	484	491	497	501	505	513	517	521
175	434	436	440	445	448	452	456	458	457
180	439	439	439	439	439	439	439	439	439

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6688.3	N.A.	11.90
0-30	14187.26	N.A.	25.20
0-40	23166.58	N.A.	41.20
0-60	41421.63	N.A.	73.60
0-80	52593.86	N.A.	93.40
0-90	53458.57	N.A.	95.00
10-90	51736.32	N.A.	91.90
20-40	16478.29	N.A.	29.30
20-50	25801.78	N.A.	45.80
40-70	25468.05	N.A.	45.20
60-80	11172.23	N.A.	19.80
70-80	3959.22	N.A.	7.00
80-90	864.71	N.A.	1.50
90-110	282.76	N.A.	0.50
90-120	606.16	N.A.	1.10
90-130	1177.92	N.A.	2.10
90-150	2304.31	N.A.	4.10
90-180	2836.86	N.A.	5.00
110-180	2554.1	N.A.	4.50
0-180	56295.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1722.25
10-20	4966.05
20-30	7498.96
30-40	8979.33
40-50	9323.49
50-60	8931.56
60-70	7213.01
70-80	3959.22
80-90	864.71
90-100	114.41
100-110	168.34
110-120	323.41
120-130	571.75
130-140	624.11
140-150	502.28
150-160	334.06
160-170	155.66
170-180	42.83

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	107	103	98	94	104	100	96	92	95	92	89	90	87	85	86	84	82	79
2	97	89	82	76	94	87	81	75	82	77	73	78	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	47
5	74	61	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	45	39	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	39	34	45	38	33	43	37	33	31
8	59	46	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	38	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22

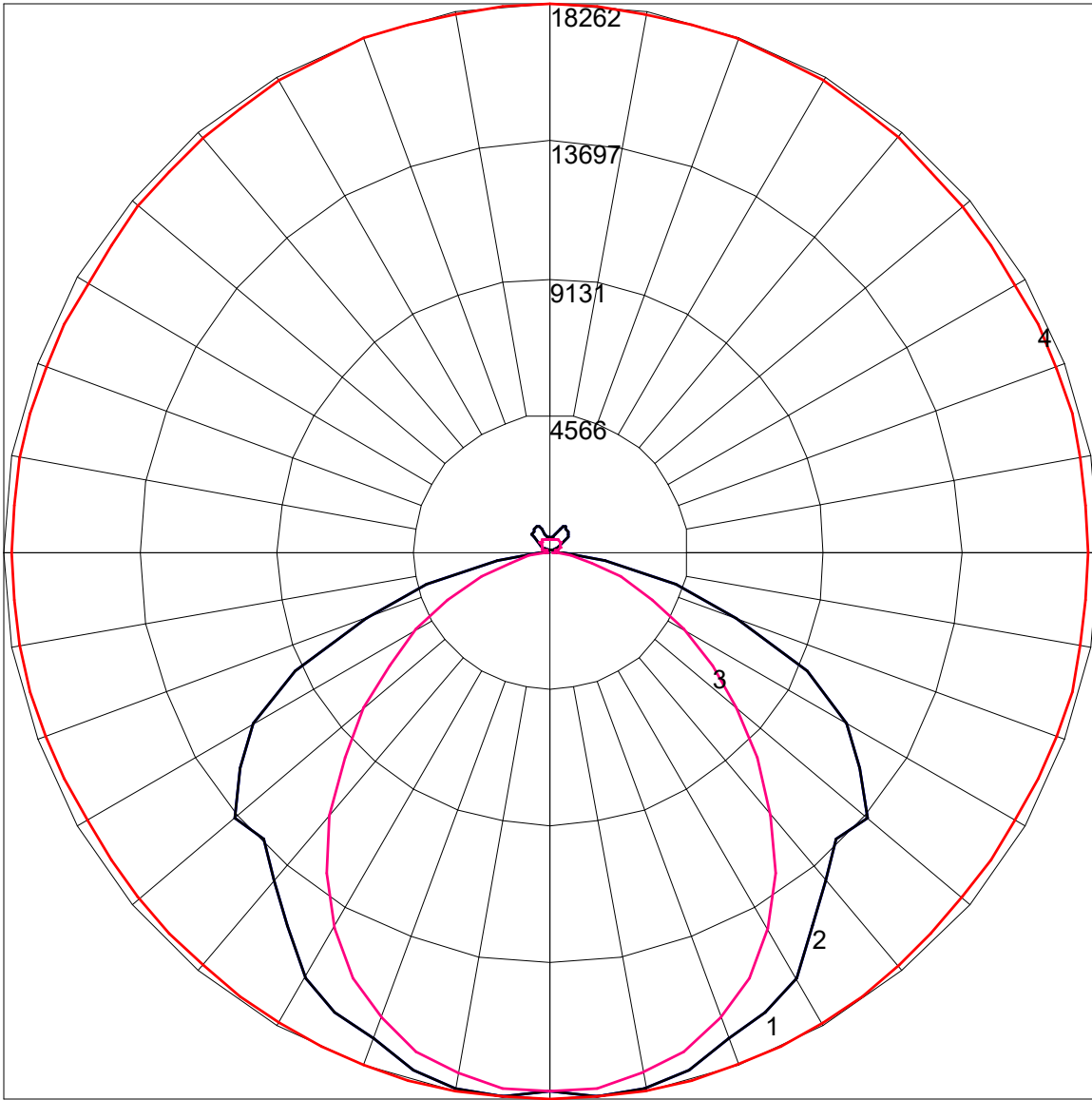
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	22.6	24.1	23.0	24.5	25.0	26.6	28.1	27.1	28.6	29.0
	3H	23.7	25.1	24.1	25.5	26.0	28.4	29.8	28.9	30.3	30.7
	4H	24.0	25.3	24.4	25.7	26.2	29.0	30.3	29.5	30.8	31.3
	6H	24.1	25.3	24.6	25.8	26.3	29.3	30.5	29.7	30.9	31.4
	8H	24.1	25.3	24.6	25.7	26.3	29.3	30.4	29.8	30.9	31.4
	12H	24.1	25.2	24.6	25.7	26.2	29.3	30.4	29.8	30.9	31.4
4H	2H	24.3	25.6	24.8	26.1	26.6	27.1	28.5	27.6	28.9	29.4
	3H	25.8	26.9	26.3	27.4	27.9	29.3	30.4	29.7	30.8	31.4
	4H	26.2	27.2	26.7	27.7	28.3	29.9	31.0	30.5	31.5	32.0
	6H	26.4	27.3	27.0	27.8	28.4	30.3	31.2	30.8	31.7	32.3
	8H	26.4	27.3	27.0	27.8	28.4	30.4	31.2	30.9	31.7	32.3
	12H	26.4	27.2	27.0	27.7	28.3	30.4	31.1	30.9	31.7	32.2
8H	4H	27.1	27.9	27.6	28.4	29.0	30.2	31.0	30.7	31.5	32.1
	6H	27.5	28.1	28.0	28.7	29.3	30.7	31.3	31.2	31.9	32.5
	8H	27.5	28.1	28.1	28.7	29.3	30.7	31.3	31.3	31.9	32.5
	12H	27.6	28.1	28.1	28.7	29.3	30.8	31.3	31.4	31.9	32.6
12H	4H	27.2	27.9	27.7	28.5	29.0	30.2	30.9	30.7	31.5	32.1
	6H	27.6	28.2	28.2	28.8	29.4	30.7	31.3	31.3	31.8	32.5
	8H	27.8	28.3	28.3	28.9	29.5	30.8	31.3	31.4	31.9	32.6

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 18262 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)